|   | 0                 |          |            |                    |                   |                 |   |   |            |  |               |          |                 | 09/493,819      |                 |                |          |          |               |          |            |          | SHIBATA, NAOKI |                |                   |         |         |         |    |     |
|---|-------------------|----------|------------|--------------------|-------------------|-----------------|---|---|------------|--|---------------|----------|-----------------|-----------------|-----------------|----------------|----------|----------|---------------|----------|------------|----------|----------------|----------------|-------------------|---------|---------|---------|----|-----|
|   |                   |          |            |                    |                   |                 |   |   |            |  |               | E        | Examiner        |                 |                 |                |          |          |               |          | Art Unit   |          |                |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   |            |  |               | -        | Dougles A Wills |                 |                 |                |          |          |               |          | 2014       |          |                |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   |            |  |               |          |                 | Douglas A Wille |                 |                |          |          |               |          |            | 2814     |                |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   |            |  |               |          |                 | _               | •               | -              |          |          | <del></del>   |          |            | _        |                |                |                   |         | _       |         |    |     |
|   |                   | , 1      | Rejected _ |                    |                   |                 |   |   |            | (Through numers<br>Cancelled                     |               |          |                 |                 | al) Non-Elected |                |          |          |               |          | Appeal     |          |                |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   | C          |  | N Non-Elected |          |                 |                 |                 |                | A        | Appear   |               |          |            |          |                |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   |            |  |               |          |                 |                 |                 |                |          |          |               |          |            |          |                |                |                   |         |         |         |    |     |
|   | = Allowed         |          |            |                    |                   | 1               | ١.  | +   | Restricted |  |               |          |                 |                 | ı               | I Interference |          |          |               |          |            | 0        | Objected       |                |                   |         |         |         |    |     |
|   |                   |          |            |                    |                   |                 |   |   |            | ш  |               |          |                 |                 |                 |                |          |          |               |          |            |          |                |                | ,                 |         |         |         |    |     |
| Claim   | Claim             |          |            |                    |                   | Date            |   |   | Claim      |  |               |          |                 | D               | ate             |                |          |          | :-:- <b>:</b> | G        | im         | т        |                |                | Date              |         |         |         | 1  |     |
|   | _                 | Ī        | Т          | T                  | T                 | ŤΤ              | Т   | Т   |            | <del>  ~</del>                                   | 1 1           | 丁        |                 | ΓŤ              | Ť               | <u> </u>       | $\neg$   |          |               | - 04     |            | $\vdash$ |                | <del>ٻ''</del> |                   | 7       | 1       | Т       |    |     |
| Final   | 1                 | 2        |            | 1                  |                   |                 | -   |   |            | Final  | Original      |          |                 |                 | ŀ               | - 1            |          |          |               | Tes      | Original   |          |                |                |                   | 1       |         |         |    |     |
| 눈   옷   | ? k               | 4        |            |                    |                   |                 |   |   |            | Œ  | 를             | - 1      |                 |                 | ١               |                |          |          |               | Final    | ğ          |          |                |                | 11                |         |         |         |    |     |
|   | _[                | 7        | $\perp$    | $oldsymbol{\perp}$ | Ш                 |                 | 1   | ┸   |            |  |               | _        |                 |                 | ┙               | $\bot$         |          |          |               | ٠.       |            |          |                | L              | Ш                 | $\perp$ |         | L       |    |     |
|   |                   | 4        | _          | ╀                  | Н                 |                 | 4   | +   |            | <u> </u>   | 51            | _        | ₽,              | 4               | 4               | 4              | -        | Ш        |               |          | 101        | Ш        | $\perp$        | 1              |                   | $\perp$ | $\perp$ |         |    |     |
| <del>         </del>                              | -                 | ↲        | +          | ╁                  | H                 |                 |   | +   | 4          | ├  | 52<br>53      | -        | $\vdash$        | +               | ┥               | +              | +        | Н        |               |          | 102        | -        | +              | +              | ⊢⊹                | +       | +       | ┼-      |    |     |
| <del>                                      </del> | +                 | +        | +          | +                  | +                 | $\vdash \vdash$ | ╬   | ┰   | liii       | $\vdash$   | 54            | - -      | $\vdash$        | +               | ┥               | ┰              | +        | Н        |               | _        | 103<br>104 | H        | +              | +              | ╟┼                | +       | +       | +       | 1  |     |
| 5   | +                 | オ        | +          | T                  | $\vdash$          | +               | 十   | 十   |            | $\vdash$   | 55            |          |                 | +               | +               | $\dashv$       | +        | H        |               |          | 105        |          | $\dashv$       | +              | $\vdash \vdash$   | +       | +       | +       | 1  | -   |
| 6   | _                 | _        | 丁          | I                  | П                 |                 | 丁   | 丁   |            |  | 56            |          | П               | $\top$          | 7               | $\dashv$       | $\top$   | ⇈        |               |          | 106        | П        |                | $\top$         | $\vdash$          | +       | +       | +       | 1  |     |
|   |                   | 4        |            |                    |                   |                 | I   | I   |            |  | 57            | 丄        |                 |                 | 1               | ⇉              |          |          |               |          | 107        |          |                | I              |                   |         | 上       |         |    |     |
| 8   |                   | 4        |            |                    | $\Box$            | Ц               | $\perp$   | $\bot$  |            |  | 58            | $\Box$   | $\Box$          | $\Box$          | I               | $\perp$        |          | $\Box$   |               |          | 108        |          | $\Box$         | I              | $\square$         | I       | $\perp$ |         |    |     |
| 8   |                   | 44       | 4          | 1                  | Ш                 | 4               | 4   | 4   |            | <u> </u>   | 59            | Ц.,      | $\perp$         | $\perp$         | 4               | _[             | $\perp$  | $\sqcup$ |               |          | 109        | $\Box$   |                | 1              | Щ                 | 1       | $\perp$ | $\perp$ | l  | i   |
| 10  |                   | H        | +          | +                  | $\vdash$          | $\vdash$        | +   | +-  | 4          | ├  | 60            |          | ╀┤              | -+              | 4               | $\dashv$       | +        | Н        |               |          | 110        | <u> </u> |                | +              | dash              | +       | +       | +       | ł  |     |
|   |                   | 4        | +          | ╄                  | Н                 | $\vdash$        | +   | +   |            | <del> </del>                                     | 61<br>62      | +        | $\vdash$        | $\vdash$        | 4               | $\dashv$       | - -      | Н        |               |          | 111        | ┞        |                | -              | $\vdash \vdash$   |         |         | ╁       | ł  |     |
| 19  | 1                 | ┪        | +          | ╁                  | ╁┤                |                 | ╅   | ╁   |            | <u> </u>   | 63            | - -      |                 | +               | ┪               | $\dashv$       | +        | Н        | H             |          | 113        | -        |                | ╁╌             | $\vdash$          | +       | +       | ╁       | 1  |     |
| 1   | 1                 | ┪        | 十          | +                  | Н                 |                 | $\top$  | +-  |            | ├-   | 64            | +        | Н               | $\top$          | 7               | 十              | +        | Н        |               |          | 114        | $\vdash$ | $\dashv$       | +              |                   | ╅       | ╅       | +       | 1  |     |
| 1   | 57                | 7        | 1          | 1                  | П                 |                 | $\top$  | ┪╴  |            |  | 65            | $\dashv$ | Т               | $\top$          | 7               | 寸              | 1        | П        |               |          | 115        | Т        | $\neg$         | †              |                   | 十       | +       | t       | 1  |     |
| 118   | 3                 | I        | $\Box$     | I                  |                   |                 | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |   |            |  | 66            |          |                 |                 |                 |                |          |          |               |          | 116        |          |                |                |                   |         |         |         |    | -   |
|   |                   | _        |            | ┺                  |                   | $\Box$          | 4   |   |            |  | 67            |          | Ц               |                 |                 | $\bot$         |          |          |               |          | 117        |          |                |                |                   |         | $\perp$ |         |    |     |
|   |                   |          | -4-        | 4-                 | Н                 | $\vdash$        | 4   | 4   |            | <u> </u>   | 68            | 4        | $\sqcup$        | 4               | 4               | 4              | _        | Н        |               |          | 118        |          | $\dashv$       |                | $\sqcup$          | 4       | _       | ╄       | Į. |     |
| 1:  |                   | 7        |            | +                  | Н                 | +               | +   | +   |            | <del>                                     </del> | 69<br>70      | +        | $\vdash$        | +               | +               | $\dashv$       |          | Н        |               | _        | 119        | H        | -              | +              | $\vdash$          | +       | +       | ┼       | ł  |     |
| 2   |                   |          |            | ┿                  | $\vdash$          | +               | +   | +   |            | ├  | 71            | +        | $\vdash$        |                 | +               | ┰              | +        | Н        |               |          | 120<br>121 | ⊢        | +              | +              | $\vdash$          | +       |         | ╁       | ł  |     |
| 2   |                   | ᆉ        | +          | +-                 | Н                 | $\vdash$        | 十   | +   |            |  | 72            | +        | Н               | -               | +               | 十              | +-       | Н        |               | _        | 122        | ┢        | +              | +              | $\vdash$          | +       | +       | ╁       |    | .   |
| 2   |                   | 러        | +          | $\top$             | Н                 | $\vdash$        | 十   | +   |            |  | 73            | $\top$   | Н               |                 | 7               | 十              | +-       | $\vdash$ |               |          | 123        | $\vdash$ | $\dashv$       | +              | $\vdash$          | +       | 十       | +       |    |     |
| 2   | П                 | ᆈ        |            | Τ                  |                   |                 | Ť   |   |            |  | 74            |          | П               |                 | 7               | 7              |          |          |               |          | 124        |          | $\top$         |                |                   | 十       | 1       | T       | 1  |     |
| (2)   | 3)[               | Ξ        | $\Box$     |                    |                   |                 |   |   |            |  | 75            | I        |                 |                 | I               |                |          |          |               |          | 125        |          |                |                |                   |         | $\perp$ |         | 1  |     |
| 26  | 1                 | 4        |            | 1_                 | $\vdash$          |                 |   | 4   |            | <u> </u>   | 76            |          | Ш               | $\perp$         | 4               | 4              |          | Ш        |               |          | 126        |          | $\perp$        | 1_             | $\perp$           | 4       | 4       | ┖       |    |     |
| 27  | 4                 | 4        | -          | +-                 | ┦                 | -               | +   | +   |            | <u> </u>   | 77            |          | $\vdash$        | $\dashv$        | 4               | +              |          | Н        |               |          | 127        | Ш        | +              | $\bot$         | $\dashv$          | 4       | -       | ╀       |    | .   |
| 28<br>29  | #                 | +        | +          | ╁                  | Н                 | -               | ╁   | +-  |            | <del> </del>                                     | 78<br>79      | +        | Н               |                 | +               | $\dashv$       | +        | Н        |               | -        | 128<br>129 | Н        | $\dashv$       | +              | $\vdash$          | ╬       | +       | ╀       |    |     |
| 30  | $\dagger \dagger$ | ┪        | +          | +                  | ╁╌┤               | -               | +   | +   |            | $\vdash$   | 80            | +        | Н               | $\dashv$        | +               | $\dashv$       | +        | ╁╌┤      | :::}          | $\dashv$ | 130        | Н        | +              | +              | $\vdash$          | +       | +       | +       |    |     |
| 31  | П                 | 1        | 十          | $\top$             | Н                 | $\top$          | 十   | $\top$  |            | $\vdash$   | 81            | $\top$   | Н               | 十               | 7               | $\dashv$       | $\top$   | Н        |               |          | 131        | Н        | +              | T              | $\vdash$          | +       | $\top$  | T       |    |     |
| 32  | 2 [               |          | 1          | L                  |                   |                 | I   | $\perp$   |            |  | 82            |          |                 | 丁               | J               |                | 工        |          |               |          | 132        |          | 工              | Ι              |                   | 土       | I       |         |    |     |
| 33  |                   | $\Box$   | $\perp$    |                    |                   |                 | I   |   |            |  | 83            |          |                 |                 | I               | $\Box$         |          |          |               |          | 133        |          |                |                |                   | $\perp$ | I       |         |    |     |
| 34  |                   | 4        | $\perp$    | $\perp$            | $\sqcup$          | _               | 4   | $\perp$   |            |  | 84            | 4        |                 | $\perp$         | 4               | 4              | $\perp$  | П        |               |          | 134        | ╚        |                | $\bot$         | Ц                 | $\perp$ | $\Box$  | 1       |    |     |
| 35  |                   | 4        | 4          | 4                  | $\vdash$          | $\vdash$        | +   | ╀   |            | <u> </u>   | 85            |          | $\vdash$        | 4               | 4               | $\dashv$       | 4-       | Н        |               |          | 135        | ₩.       |                | +              | $\vdash$          | $\bot$  | +       | ₩       | 1  |     |
| 36  |                   | +        | +          | +-                 | $\vdash$          | -               | +   | ┿   |            | ⊢  | 86<br>87      | +-       | $\vdash$        | +               | 4               | -              |          | ₩        | Ш             |          | 136<br>137 | ₩        | -              | +              | ₩                 | +       | +       | ╀       | 1  | - 1 |
| 38  |                   | $\dashv$ | +          | +                  | Н                 | +               | +   | +   |            | $\vdash$   | 88            | +        | Н               | +               | $\dashv$        | +              | +        | Н        | ░             | $\dashv$ | 138        | $\vdash$ |                | +              | $\vdash \vdash$   | +       | +       | +-      | 1  |     |
| 39  |                   | +        | +          | +                  | Н                 | $\vdash$        | +   | $\top$  |            | $\vdash$   | 89            | +        | Н               | $\dashv$        | ┪               | +              | +        | Н        |               |          | 139        | Н        | +              | +              | $\vdash$          | +       | +       | +       | 1  |     |
| 40  |                   | _        | 丁          | T                  | П                 |                 | ╛   |   |            |  | 90            |          | П               | $\top$          | 1               | _              | 1        | П        |               |          | 140        | П        | $\top$         | T              | $\vdash \uparrow$ | $\top$  | +       | $\top$  | Í  |     |
| 41  | $\coprod$         |          |            |                    |                   |                 | I   | $oldsymbol{ol}}}}}}}}}}}}}} $ |            |  | 91            | 工        |                 |                 | ]               |                |          |          |               |          | 141        |          |                | oxdot          |                   | 丁       | I       | Π       | ]  |     |
| 42  |                   | 1        | T          | 工                  | 口                 | П               | Ţ   | 工   |            |  | 92            | $\Box$   | $\Box$          | 工               | 1               | Ⅱ              | 工        | 口        |               |          | 142        |          | $\perp$        |                | $\Box$            | T       | T       | $\Box$  |    |     |
| 43  |                   | 4        | +          | +-                 | Н                 | $\vdash$        | +   | 4-  | H          | <u> </u>   | 93            | $\dashv$ | $\vdash$        | $\vdash$        | 4               | 4              | 4        | Н        |               |          | 143        | <b> </b> |                | +-             | $\vdash \vdash$   | 4       | 4-      | 1       | 1  |     |
| 44  |                   | 4        | +          | -                  | ₽┤                | +               | +   | +-  |            | <b>—</b>   | 94            | -        | $\vdash$        | $\dashv$        | 4               | -+             | -        | Н        |               |          | 144        | $\vdash$ | $\dashv$       | +              | ├                 | +       | +       | ┼-      | 1  |     |
| 45  | #                 | +        |            | +                  | ┼┤                | $\vdash$        | +   | ╫   |            | $\vdash$   | 95<br>96      | +        | $\vdash$        | +               | +               | $\dashv$       | $\dashv$ | Н        |               | $\dashv$ | 145<br>146 | $\vdash$ | -              | +              | $\vdash \vdash$   | +       | +       | +       | 1  |     |
| 47  |                   | +        | +          | +                  | Н                 | +               | +   | +-  |            | $\vdash$   | 97            | +        |                 | +               | +               | $\dashv$       | +        | Н        | #             |          | 147        | $\vdash$ | +              | +              | $\vdash +$        | +       | +       | ┿       | 1  |     |
| 48  |                   | +        | +          | $\top$             | $\dagger \exists$ | -               | +   | +   |            | <del>                                     </del> | 98            | +        | Н               | +               | +               | +              | 1        | Н        |               |          | 148        | Н        | +              | +              | $\vdash \vdash$   | +       | +       | 十       | 1  | - 1 |
| 49  | 1                 | ⇉        | _          | I                  |                   |                 | 丁   | $\perp$   |            |  | 99            | $\top$   | П               |                 | 7               |                |          | П        |               |          | 149        |          | $\dashv$       | $\top$         | $\sqcap$          | $\top$  | 1       | $\top$  | ĺ  | :   |
| 50  | ī                 | $\Box$   | I          | I                  |                   |                 | T   | I   | ]::::      |  | 100           |          |                 |                 | 1               | $\Box$         |          |          |               |          | 150        |          |                |                |                   | 1       | 1       | Ι       |    |     |
|   |                   |          |            |                    |                   |                 |   | • -   |            |  |               |          |                 |                 |                 |                |          |          |               |          |            |          |                |                |                   |         |         |         |    |     |

Application No.

Index of Claims

Applicant(s)